

Doxey and Captain's Cove Condominium Sites

Proposed Decision Documents

Introductions

NYSDEC:

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Proposed Decision Documents

- Doxey Proposed No Further Action (NFA)
- Captain's Cove Operable Unit 1 (OU1) Excavation and Backfill
- Captain's Cove Operable Unit 2 (OU2) Excavation and Backfill
- Captain's Cove Operable Unit 3 (OU3) NFA



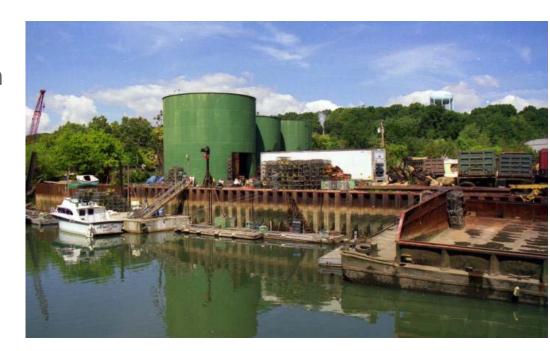
Doxey

No Further Action



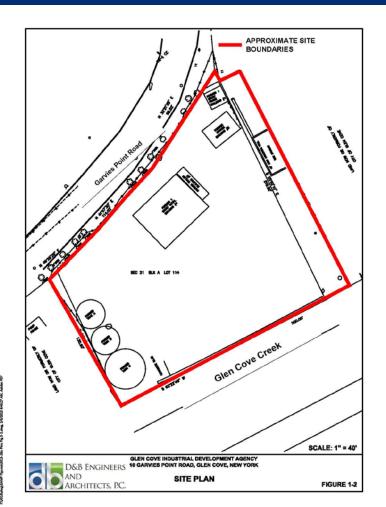
Site History

- Former heating oil/distribution facility and salvage yard
- Historical spills lead to contamination of soil and groundwater
- USEPA Brownfield Site
- Cleanup under NYSDEC Stipulation Agreement





Site Map





Summary of Contamination

- Primary Contaminants of Concern were:
- Petroleum related Gross Contamination (Fuel Oil)
- Total Petroleum Hydrocarbons (weathered Fuel Oil)
- Semi-Volatile Compounds (SVOCs)
- Arsenic (soil only)





Exposure

- The physical contact with a chemical or substance
 - direct contact (touching)
 - ingestion (eating/drinking)
 - inhalation (breathing)
- One or more of these physical contacts must occur before a chemical has the potential to cause a health problem.
- Exposure does not necessarily mean a health effect will occur



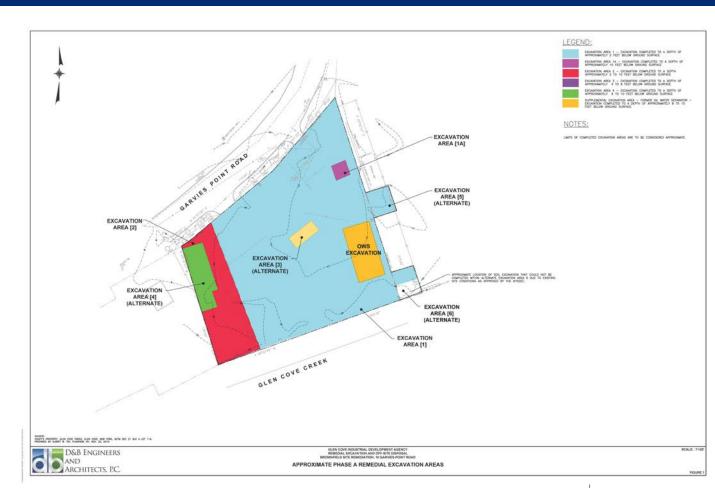
Potential Exposure Pathways:

Contact: Direct contact with contaminated soils

- Ingestion: Drinking contaminated groundwater
- Inhalation: Soil Vapor Intrusion



Phase A Excavation



Phase B Excavation



Summary of Remediation

Remedial Activities Completed:

- ✓ Excavation depths ranged from 2 ft below grade (bgs) to 15 ft bgs
- √ 8,335 cubic yards of non-hazardous soil excavated and disposed
 of properly
- ✓ Demarcation layer
- ✓ Groundwater monitoring network
- ✓ Site Management Plan



Proposed Decision – No Further Action

- No Further Action
- Institutional Control: Environmental Easement
 - Restricted Residential
 - Continued Groundwater Monitoring
 - Site Management



Exposure Mitigation

- Contact:
 - Excavation and off-site disposal of contaminated soil
 - ✓ Establishment of a site-wide cap
 - ✓ Institutional controls and Site Management Plan

No Contact = No Exposure



Exposure Mitigation

- Ingestion:
 - ✓ Area is served by public water
 - ✓ Institutional Controls and Site Management
 - ✓ Groundwater Monitoring

No Ingestion = No Exposure



Exposure Mitigation

- Inhalation:
 - ✓ Site is vacant / no buildings
 - ✓ Provisions for the evaluation for soil vapor intrusion for any buildings constructed in the future

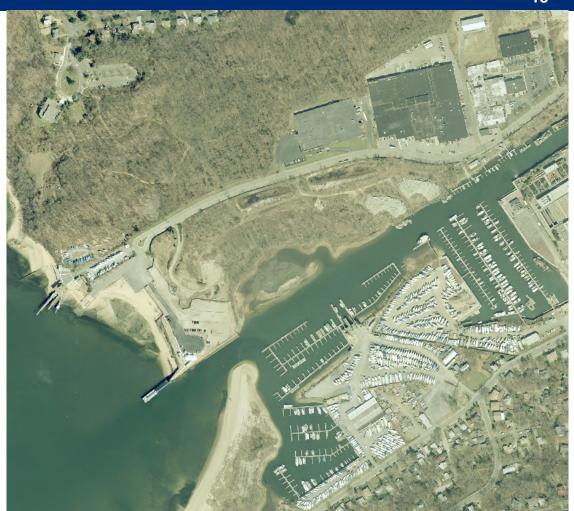
No Inhalation = No Exposure



Captain's Cove Condominiums



Captain's Cove Circa 2000



Site History

- ✓ Early 1930's and 1940's probable disposal of Glen Cove Creek dredge spoils.
- √ 1950's 1970's used as "Community Dump" for incinerator ash, waste, creek sediments and Li Tungsten (LiT) waste
- ✓ Initial redevelopment abandoned in 1986 when wastes found
- ✓ Listed as NYSDEC Class 2 Site in 1986
- ✓ Remedial Investigation begins 1988



Site History Continued

- ✓ Portions (Areas A, A', G and G') added to Li Tungsten (LiT) NPL Site as Operable Unit 2
- √ 1997 radiological contamination related to LiT Confirmed
- √ 1997 City of Glen Cove enters Title 3 Program to remediate
 Site
- √ 1999 NYSDEC issues Record of Decision (ROD) for Title 3
 Site
- ✓ 1999 EPA issues ROD LiT OU2



Contaminants of Concern

Title 3 Remedy

 Soil: Metals, Semi Volatile Organics, Volatile Organics

 Groundwater: Metals, Semi Volatile Organics, Volatile Organics

EPA LiT OU2 Remedy

 Soil: Arsenic, Lead, Radium-226 and Thorium-232



Potential Exposure Pathways

Contact: Direct contact with contaminated soils

- Ingestion: Drinking contaminated groundwater
- Inhalation: Soil Vapor Intrusion



Remedies Implemented

Title 3 Remedy

- Excavation of waste delineated by solid waste
- Segregation and disposal
- Reuse of soil as backfill as appropriate
- Soil Cover
- GW monitoring
- Institutional Control Commercial Development

EPA LiT OU2 Remedy

- Excavation and disposal of radiological contaminated soil
- Excavation and disposal of arsenic and lead contaminated soil to GW
- Soil Cover
- Institutional Control Restricted Residential



Captain's Cove Operable Units



Boundary Modification

To allow the Department to better manage the Captain's Cove Site during remediation and redevelopment and to ensure a consistent approach across the site, a boundary modification was completed to:

- ❖ Incorporate Li Tungsten Operable Unit 2 (Areas A, A', G and G')
- Incorporate the areas of Captain's Cove Property outside of the Title 3 and Li Tungsten OU2 remedial areas



Captain's Cove – Operable Units

OU1 – Original Title 3 Area and Li Tungsten OU2 Area A and A'

OU2 – Areas Outside Title 3 and Li Tungsten OU2 Remedial Areas

OU3 (Ferry Terminal)

– Li Tungsten OU2

Area G and G'



Operable Unit 3

Ferry Terminal



OU3 – Ferry Terminal

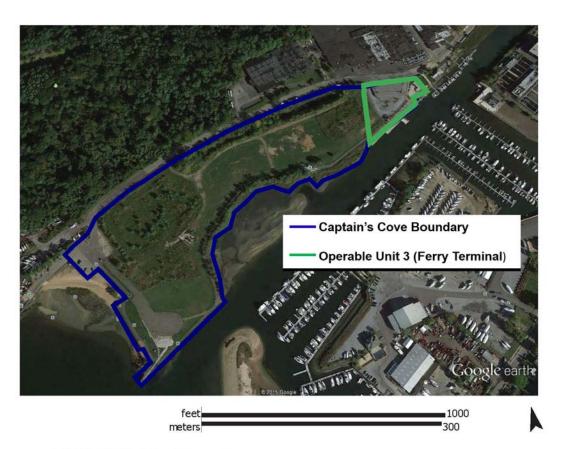


FIGURE 1 Site Boundary

Groundwater Remedial Objectives

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable
- Remove the source of groundwater or surface water contamination



Soil Remedial Objectives

RAOs for Public Health Protection

 Prevent ingestion/direct contact with contaminated soil.

RAOs for Environmental Protection

 Prevent migration of contaminants that would result in groundwater or surface water contamination.



Soil Vapor Remedial Objectives

RAOs for Public Health Protection

 Mitigate impact to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.



Remedial Activities

- Remediation in Accordance with the 1999 Li Tungsten Record of Decision (ROD)
- Designated Area G and G' (approx. 1.5 acres)
- Excavation of soil contaminated with arsenic, lead, radium-226 and thorium-232
 - Excavation depth between 3 and 14 ft bgs
- Segregation of radionuclide-contaminated soil and nonradionuclide soil for proper disposal
- Site cover



EPA Remediation Areas G and G'



OU3 - Area G'

